

CLAIMS

1. A supporting body for use in an orthodontic appliance comprising:

an anchor member (12) for being fixed in a bone (18), a screw member (14) to be engaged into a female screw part (26) of the anchor member (12), and a holder (16) to be supported on the anchor member (12),

wherein the holder (16) is fixed on the anchor member (12) as the screw member (14) is in tight contact with the female screw part (26) of the anchor member (12), and

wherein the holder (16) can be detached from the anchor member (12) as the screw member (14) is in loose contact with the female screw part (26) of the anchor screw (12) but still lying in the female screw part (26) of the anchor screw (12).

2. A supporting body for use in an orthodontic appliance comprising:

an anchor member (12) for being fixed in a bone (18), a screw member (14) to be engaged into a female screw part (26) of the anchor member (12), and a holder (16) to be supported on the anchor member (12),

wherein the anchor member (12) has an expansion part (24), the screw member (14) being tightened into the female screw part (26) of the anchor member (12), thereby expanding the expansion part (24) of the anchor member (12) to fix the holder (16), and

wherein the screw member (14) is loosened relative to the female screw part (26) of the anchor member (12), thereby detaching the holder (16) from the anchor member (12) as the screw member (14) is lying in the female screw part (26) of the anchor screw (12).

3. The supporting body for use in an orthodontic appliance according to claim 1 or 2, wherein an expansion part (24) of the anchor member (12) is

arranged between a bearing surface (14c) of the screw member (14) and the holder (16).

4. The supporting body for use in an orthodontic appliance according to anyone of claims 1 to 3, wherein a bearing surface (14c) of the screw member (14) is tapered.

5. The supporting body for use in an orthodontic appliance according to anyone of claims 1 to 4, wherein an expansion part (24) of the anchor member (12) is arranged between a bearing surface of the screw member (14) and the holder (16), and wherein the expansion part (24) of the anchor member (12) is tapered correspondingly to a bearing surface (14c) of the screw member (14).

6. The supporting body for use in an orthodontic appliance according to anyone of claims 1 to 5, wherein an expansion part of the anchor member (12) is configured as a tubular part (24) with a slit (24b).

7. The supporting body for use in an orthodontic appliance according to claim 6, wherein one end of the slit (24b) is open, while the other end is provided with a hole having a diameter larger than a width of the slit (24b).

8. The supporting body for use in an orthodontic appliance according to anyone of claims 1 to 7, wherein the holder (16) has a through hole, the anchor member (12) being pressed against a circumferential surface (16c) of the through hole of the holder (16), thereby fixing the holder (16) on the anchor member (12).

9. The supporting body for use in an orthodontic appliance according to claim 8, wherein a diameter of the through hole of the holder (16) is larger than a maximum outer diameter of the screw member (14).

10. The supporting body for use in an orthodontic appliance according to anyone of claims 8 or 9, wherein the through hole of the holder (16) is

tapered to hardly lose.

11. The supporting body for use in an orthodontic appliance according to anyone of claims 8 to 10, wherein irregularities are formed on a circumferential surface of the through hole of the holder (136).

12. The supporting body for use in an orthodontic appliance according to anyone of claims 1 to 11, wherein two or more anchor members are used, the anchor members being connected by the wire holder.